Power Electronic II
2015-2016
AC-AC Voltage Controllers

Lecture 3	**1-ph Full Wave (2 SCRs) AC Voltage Controller with R load + waveforms + mathematical analysis [Proof: $V_{o(rms)}$ and Report :Harmonics of the circuit]** **1-ph Full Wave (2 SCRs) AC Voltage Controller with RL load (inductive load) + waveforms + mathematical analysis [Proof: $V_{o(rms)}$ and Report :Harmonics of the circuit]**	**Monday 5-9-2015 Dr. Khaled**
Lecture 4	**1-ph Half Wave (1 SCR + 1 Diode) AC Voltage Controller with R load + waveforms + mathematical analysis for each wave+ Why we use transformer between source and controller + Range of the control parameter Alpha + Disadvantages of that controller + Solved Example + state the types of controllers with suitable control method to obtain $V_{o(rms)} = 50\% V_{s(rms)}$ + How to calculate transcendental equation using Calculator (How to Find Value Of Alpha)**	**Wednesday 7-9-2015 Dr. Emad**